

## Applicable department

- Laboratory, ICU, Respiratory, Emergency, Anesthesiology, Operating Room, Pediatrics, Obstetrics, Neonatology, Cardiology department, Cardiac surgery department, Neurology department, Neurosurgery, Nephrology, Geriatrics, fever clinic, etc

## Applicable Conditions

### Clinical diagnosis

- Objective assessment criteria for oxygenation, ventilation and acid–base balance
- Severity classification of asthma in acute attack
- Severity classification of COPD during acute exacerbation
- Diagnostic criteria for neonatal asphyxia
- Diagnosis and classification of respiratory failure and hypoxemia

### Intensive care

- Condition and prognosis of severe trauma, organ failure, etc.
- Indications for ICU transfer in/out
- Routine monitoring of critical patients before and after rescue
- APS score for critical patients

### Treatment monitoring

- Indications before and after using the ventilator and the basis for adjusting the ventilator
- Analysis and treatment monitoring of acid–base disorder
- hemodialysis efficacy, treatment efficacy of renal failure patients
- Perioperative management and anesthesia safety monitoring
- Dynamic observation of asthma and ARDS, before and after oxygen therapy



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## Vitagas 5 series Blood Gas Analyzer

pH pCO<sub>2</sub> pO<sub>2</sub> K<sup>+</sup> Na<sup>+</sup> Cl<sup>-</sup> Ca<sup>2+</sup> Hct Lac Glu

## Sample type

Whole Blood, Arterial Blood, Venous Blood, Serum, Plasma, CSF

## Models

Vitagas 5 : pH、pO<sub>2</sub>、pCO<sub>2</sub>、Hct、K<sup>+</sup>、Na<sup>+</sup>、Cl<sup>-</sup>、Ca<sup>2+</sup>

Vitagas 5A: pH、pO<sub>2</sub>、pCO<sub>2</sub>、Hct

Vitagas 5B: pH、pO<sub>2</sub>、pCO<sub>2</sub>、Hct、Glu、Lac

Vitagas 5E: pH、pO<sub>2</sub>、pCO<sub>2</sub>、Hct、K<sup>+</sup>、Na<sup>+</sup>、Cl<sup>-</sup>、Ca<sup>2+</sup>、Glu、Lac

## Calculation Parameters

pH(TC)、pCO<sub>2</sub>(TC)、pO<sub>2</sub>(TC)、TCO<sub>2</sub>、HCO<sub>3</sub><sup>-</sup>、BE、BEecf、SBC、sO<sub>2</sub>%、nCa<sup>2+</sup>(7.4)、TCa<sup>2+</sup>、AG、RI、pO<sub>2</sub>(A-a)、P<sub>50</sub>、THb、BBP、BBb、pO<sub>2</sub>/FiO<sub>2</sub>、pO<sub>2</sub>(TC)/FiO<sub>2</sub>、cH<sup>+</sup>(TC)、mOsm、pO<sub>2</sub>(A)、pO<sub>2</sub>(A,TC)、pO<sub>2</sub>(A-a,T)、pO<sub>2</sub>(a/A,T)、pO<sub>2</sub>(a/A)、RI(T)、AG(k<sup>+</sup>)、ctO<sub>2</sub>、ctCO<sub>2</sub>(p)、ctCO<sub>2</sub>(B)

## Arteriovenous combination calculation parameters

ScvO<sub>2</sub>、pCO<sub>2</sub>(gap)、CaO<sub>2</sub>、CvO<sub>2</sub>、CaCO<sub>2</sub>、CvCO<sub>2</sub>、SaO<sub>2</sub>、SvO<sub>2</sub>、VO<sub>2</sub>、VCO<sub>2</sub>

## Features

- Multi-specification reagent packs (50 tests/pack-1200 tests/pack): stored at room temperature for 9 months, valid for up to 45 days on-board.
- Integrated flush solution pack to avoid biological pollution and without waste till used up.
- Automatic sample aspiration and sample needle cleaning, support capillary, arterial blood syringe, test tube, etc.
- Sample analysis speed ~60s (with Lac/Glu <90s), blood volume for the whole parameters <170ul.
- Built-in multi-level quality control rules, quality control charts, quality control data, printable and exportable.
- Support bi-direction LIS, built-in WiFi, 4G, and remote maintenance system.
- Built-in 2D barcode scanner and thermal printer, support external USB printer.
- Built-in UPS, optional trolley and external large-capacity UPS.

large

12.1 inches color LCD touch screen, large data storage space

new

Disposable dry lactate-glucose electrode with innovative technology, upto 30 days

more

More than 32 calculated parameters

easy

Video instruction and online help

